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14. The method of claim 5, further comprising:
a retransmitting device that is part of the connection receiving a next one of the
original packets, and
5 wherein if the replication flag is set, the retransmitting device generates next
redundant data by replicating next original voice data included in the next original packet,
and transmits the next redundant data to the second device.
15. The method of claim 14, wherein
10 the retransmitting device transmits the next redundant data in at least one
additional packet distinct from the next original packet.
16. The method of claim 14, wherein
the retransmitting device imparts at least a portion of the next redundant data in a
15 second received original packet.
17. The method of claim 14, further comprising:
monitoring an error rate of transmitting; and
if the error rate of transmitting is higher than a threshold rate, setting the
20 replication flag.
18. The method of claim 14, further comprising:
determining a surplus network bandwidth for transmitting the redundant data; and
setting the replication flag if the surplus network bandwidth is higher than a
25 threshold.
19. The method of claim 18, further comprising:
setting a redundancy factor for generating the redundant data in accordance with
the determined surplus network bandwidth.

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20. The method of claim 18, further comprising:
inputting a size of a jitter buffer; and
setting a redundancy factor for generating the redundant data in accordance with
the inputted jitter buffer size.
21. The method of claim 14 further comprising:
the retransmitting device receiving a redundancy request; and
in response to the redundancy request, setting the replication flag.
22. The method of claim 21, wherein
the redundancy request is issued from the first device.
23. The method of claim 21, wherein
the redundancy request is issued from the second device.
24. A device comprising:
means for establishing a connection with a second device through a network
according to a faulty packet network communication protocol;
means for transmitting to the second device original voice data in original packets
through the connection;
means for generating redundant data by replicating the original voice data; and
means for transmitting the redundant data to the second device.
25. The device of claim 24, wherein
the first device transmits at least some of the redundant data in additional packets
distinct from the original packets.
26. The device of claim 24, wherein
the first device imparts at least some of the redundant data in the original packets
prior to transmitting them.

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27. The device of claim 24, further comprising:
means for determining whether a replication flag is set; and
means for generating the redundant data only if the replication flag is set.
- 5 28. The device of claim 27, further comprising:
means for receiving a redundancy request; and
means for setting the replication flag in response to the redundancy request.
29. The device of claim 28, further comprising:
10 means for securing additional bandwidth.
30. The device of claim 27, further comprising:
means for monitoring an error rate of transmitting; and
means for setting the replication flag if the error rate of transmitting is higher than
15 a threshold rate.
31. The device of claim 27, further comprising:
an associated first modem for transmitting the original voice data;
means for determining a surplus bandwidth capacity of the first modem; and
20 means for setting a redundancy factor for generating the redundant data in
accordance with the determined surplus bandwidth capacity.
32. The device of claim 27, further comprising:
an associated first modem for transmitting the original voice data;
25 means for determining a surplus bandwidth capacity of the first modem; and
means for setting the replication flag if the surplus bandwidth capacity is higher
than a threshold.
33. A retransmitting device for use in a network comprising a first device and a
30 second device and operating according to a faulty packet network communication
protocol, comprising: a processor configured to:

receive from the first device original voice data in an original packet;
transmit through the connection to the second device the original packet;
determine whether a replication flag is set; and
if so, generate redundant data by replicating the original voice data, and transmit
5 the redundant data to the second device.

34. The device of claim 33, wherein the processor is further configured to
transmit the next redundant data in at least one additional packet distinct from the
next original packet.

35. The device of claim 33, wherein the processor is further configured to
impart at least a portion of the next redundant data in a second received original
packet.

36. The device of claim 33, wherein the processor is further configured to
monitor an error rate of transmitting; and
if the error rate of transmitting is higher than a threshold rate, set the replication
flag.

37. The device of claim 33, wherein the processor is further configured to
determine a surplus network bandwidth for transmitting the redundant data; and
set the replication flag if the surplus network bandwidth is higher than a threshold.

38. The device of claim 37, wherein the processor is further configured to
set a redundancy factor for generating the redundant data in accordance with the
determined surplus network bandwidth.

39. The device of claim 30, wherein the processor is further configured to:
input a jitter buffer size; and
set a redundancy factor for generating the redundant data in accordance with the
inputted jitter buffer size.

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setting a redundancy factor for generating the redundant data in accordance with the determined surplus bandwidth capacity.

54. The article of claim 47, wherein executing the instructions further results in:
5 a retransmitting device that is part of the connection receiving a next one of the original packets, and

wherein if the replication flag is set, the retransmitting device generates next redundant data by replicating next original voice data included in the next original packet, and transmits the next redundant data to the second device.

10 55. The article of claim 54, wherein
the retransmitting device transmits the next redundant data in at least one additional packet distinct from the next original packet.

15 56. The article of claim 54, wherein
the retransmitting device imparts at least a portion of the next redundant data in a second received original packet.

20 57. The article of claim 54, wherein executing the instructions further results in:
monitoring an error rate of transmitting; and
if the error rate of transmitting is higher than a threshold rate, setting the replication flag.

25 58. The article of claim 54, wherein executing the instructions further results in:
determining a surplus network bandwidth for transmitting the redundant data; and
setting the replication flag if the surplus network bandwidth is higher than a threshold.

30 59. The article of claim 58, wherein executing the instructions further results in:
setting a redundancy factor for generating the redundant data in accordance with the determined surplus network bandwidth.

